Case No.: 2005-00174

Questions From: Public Service Commission – September 9, 2005

Response from: Hopkinsville Water Environment Authority

Sponsoring Witness:

#### **INFORMATION REQUEST NO. 17.**

Refer to the Direct Testimony of Mr. McKinley at 12.

b. List the similar systems that Mr. McKinley relied upon to determine the allocation factors.

#### **RESPONSE:**

Please see HWEA's Response to Commission Information Request No. 13a.

Case No.:

2005-00174

Questions From:

Public Service Commission – September 9, 2005

Response from:

Hopkinsville Water Environment Authority

Sponsoring Witness: Jennings Rowe McKinley II

#### **INFORMATION REQUEST NO. 17.**

Refer to the Direct Testimony of Mr. McKinley at 12.

c. Describe in detail the method that Mr. McKinley used to determine the allocation factors.

#### **RESPONSE:**

A maximum day to average day ratio of 1.3 was used based on experienced demands in the HWEA water system. This indicates that approximately 76.9 (1.0/1.3) percent of the capacity of facilities designed and operated to meet maximum day demand is required for average day or base use. Accordingly, the remaining 23.1 ([1.3-1.0]/1.3) percent is required for maximum day extra capacity requirements. A ratio of maximum hour to annual average day demand ratio of 2.0 was used in the B&V Report. This ratio indicates that 50.0 (1.0/2.0) percent of the capacity of facilities designed and operated for maximum hour demand is needed for average or base use, while 15.0 (0.3/2.0) percent is utilized for maximum day extra capacity demands, and the remaining 35 ([2.0-1.3]/2.0) percent is required to meet maximum hour capacity extra capacity demand in excess of maximum day needs.

Case No.:

2005-00174

Questions From:

Public Service Commission – September 9, 2005

Response from:

Hopkinsville Water Environment Authority

Sponsoring Witness: Lennis Franklin Hale

#### **INFORMATION REQUEST NO. 18.**

Provide all demand studies of its system that HWEA has performed or commissioned. If no demand studies of HWEA's system have been performed, explained why not.

#### **RESPONSE:**

HWEA hired Brandstetter, Carroll & Wolf, a consulting engineering firm in 1996 to conduct a Preliminary Engineering Report to project future water system growth. The Report is voluminous, however Section III of the Report investigates the existing capacity of the treatment system and projects future growth. Section III of the Report is attached as Exhibit No. 18.

Case No.: 2005-00174

Questions From: Public Service Commission – September 9, 2005 Response from: Hopkinsville Water Environment Authority

Sponsoring Witness: Jennings Rowe McKinley II

#### **INFORMATION REQUEST NO. 19.**

Provide all written testimony and presentations that Mr. McKinley has submitted to other utility regulatory commissions or rate-making bodies since January 1, 1990 in proceedings regarding the adjustment of water utility rates.

#### **RESPONSE:**

Please see the CD attached as Exhibit No. 19 containing the written testimony from Mr.

McKinley that was readily available and could be obtained without undue burden or expense.

2001 DIRECT TESTIMONY: Public Hearing on Proposed Water and Wastewater Rates 2001, Water Department of Philadelphia, Pennsylvania, Direct Testimony of J. Rowe McKinley and Exhibits JRM-1 and JRM-2

2004 TESTIMONY: Public Hearing on Proposed Water and Wastewater Rates 2004, Water Department of Philadelphia, Pennsylvania, Direct Testimony of J. Rowe McKinley and Exhibits JRM-1 and JRM-2

#### **EXHIBITS**

Exhibit No. 1a.	Copy of the 1996 Agreement
Exhibit No. 3a.	Copy of all workpapers and schedules used to develop the cash flow for the FY 2005-2009 Study Period
Exhibit No. 3b.	Copy of the HWEA's FY 2005 Budget for the Hopkinsville Water Division
Exhibit No. 3c.	Copy of the YE Financial Statement, with the associated Budget figures applied
Exhibit No. 4	Copy of the Indebtedness/Bond Spreadsheet prepared by York, Neel and Company
Exhibit No. 5a.	The Bond Ordinances
Exhibit No. 5e.	Copy of the applicable pages of the Audits referenced herein
Exhibit No. 9a.	The actual annual interest rate and bond term of the Series 2005A Bond
Exhibit No. 9b.	The actual amortization schedule for Series 2005A Bond
Exhibit No. 13a.	Copy of five years of historical average day and maximum day demands were provided by the HWEA
Exhibit No. 18.	Section III of the Preliminary Engineering Report to project future water system growth HWEA prepared by Brandstetter, Carroll & Wolf, a consulting engineering firm in 1996
Exhibit No. 19	CD containing the written testimony from Mr. McKinley that was readily available and could be obtained without undue burden or expense.
1024846_1	

#### CONTRACT MODIFICATION AGREEMENT

THIS AGREEMENT is made and entered into by and between the City of Hopkinsville, Sewerage and Water Works Commission d/b/a Hopkinsville Water Environment Authority (hereinafter HWEA) and the Christian County Water District (hereinafter County) and is dated as of the 1944 day of JUNE, 1996.

WHEREAS the County has requested reconsideration of rates charged for the sale of treated water by the HWEA to the County and the County has requested that the formula for determining water rates as presented in the 1973 Water Service Contract be revised; and

WHEREAS the County has a certain service territory set out in an Order of Christian Fiscal Court dated November 13, 1967, said service territory consisting of land located outside of the water service boundaries of the cities of Hopkinsville, Crofton, Pembroke, and Oak Grove; and

WHEREAS HWEA has requested that the County cede territory along US Highway 41-A south from the present HWEA boundary and all future non-residential customers;

#### IT IS THEREFORE AGREED AS FOLLOWS:

- 1. WATER RATE ADJUSTMENT: The HWEA has agreed to adjust the current water rate to the County and to amend the contract conditions for determining future rate increases as follows:
  - a. Beginning in July 1, 1996 and continuing until June 30, 2001, the water rate from HWEA to the County will be \$1.44 per 1000 gallons for the first 10,000,000 gallons per month. All water purchased by the County in excess of 10,000,000 gallons per month will be billed at a rate of \$1.5425 per 1000 gallons. The contract conditions requiring a rate evaluation and adjustment every three years is hereby rescinded.
  - b. Beginning July 1, 2001, the new rates charged by HWEA to the County for the purchase of treated water will be based upon an index of 1.3 times the applicable City rates. The rates will only change as the City rates change.

- 2. MASTER METER INSTALLATION: The HWEA shall relocate the existing master meter at KY 1613 to another appropriate location to be determined by the County at no charge. Furthermore, two other master meters will be installed at no cost to the County by the HWEA within a reasonable period.
- 3. SERVICE TERRITORY BOUNDARY ADJUSTMENT: The service territory of HWEA and the County shall be adjusted to include the following changes:
  - a. The HWEA service boundary for US 41A shall include all customers located within 1000 feet of the center line of each outside lane (closest to US 41A R/W) on both sides of the said highway running from the present southern most boundary of the HWEA service territory to the north side of Interstate 24. Any development which fronts US Highway 41A and is entirely or partially within the 1000 foot service areas will be entirely served by HWEA. All existing customers of the County located within the 1000 foot service area along US Highway 41A will be relinquished to the HWEA on or before July 1, 1996, except for Pleasant View Acres and the Harry Berry Trailer Park. The existing 8" PVC water main along US Highway 41A from KY 1613 to Locust Grove Road will be transferred to the HWEA to facilitate serving South Christian and the I-24 area. If any residential customer outside the 1000 foot corridor or residential development starts outside the 1000 foot corridor desire water that the Christian County Water District cannot serve, HWEA may serve upon the request for permission from the Christian County Water District. Permission will not be unreasonably withheld for HWEA to serve.
  - b. The County will transfer to the HWEA all existing and future non-residential territory and non-residential customers in its service area upon the written request by the HWEA. The transferred territory would not include existing and future residential customers located in the County territory, although the customers could be served from HWEA installed facilities. This arrangement will remain in effect until the County can provide sewer service.
  - c. The HWEA will permanently transfer territory north and west of Hopkinsville to the County along the route of the Northwest By Pass. The boundary will be adjusted to follow the outside right-of-way of the Northwest By Pass.

4. AGREEMENT BINDING: This agreement shall be binding upon the successors and assigns of both parties.

> CITY OF HOPKINSVILLE, SEWERAGE AND WATER WORKS COMMISSION d/b/a HOPKINSVILLE WATER ENVIRONMENT **AUTHORITY**

Wendell Lynch, Chairman

General Manager

William Lile, Chairman

ATTEST:

ATTES?

Billy Poole, Manager

Table 1

HWEA

Historical and Projected Number of Customers

	Historical					Projected				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Hopkinsville										
Residential	11,517	11,494	11,517	11,418	11,632	11,657	11,682	11,707	11,732	11,757
Commercial	1,721	1,743	1,740	1,847	1,845	1,850	1,855	1,860	1,865	1,870
Industrial	81	85	81	83	85	85	85	85	85	85
OM&G (a)	102	105	105	109	105	105	105	105	105	105
Gratis	14	15	16	17	18	18	18	18	18	18
Crofton										
Residential	0	524	519	523	523	523	523	523	523	523
Commercial	0	53	55	56	53	53	53	53	53	53
Industrial	0	0	0	0	0	0	0	0	0	0
OM&G (a)	0	0	0	0	0	0	0	0	0	0
Gratis	0	6	6	6	7	7	7	7	7	7
Pembroke										
Residential	240	236	240	242	241	241	241	241	241	241
Commercial	34	39	33	32	35	35	35	35	35	35
Industrial	0	0	0	0	0	0	0	0	0	0
OM&G (a)	3	2	3	3	3	3	3	3	3	3
Gratis	0	0	0	0	0	0	0	0	0	0
Wholesale	12	12	12	12	12	12	12	12	12	12
Total	13,724	14,314	14,327	14,348	14,559	14,589	14,619	14,649	14,679	14,709

<sup>(</sup>a) Excludes Gratis accounts.

7

Table 2

HWEA

Historical and Projected Water Usage

	Historical						Projected				
	2000	2001	2002 2003		2004	2005	2006	2007	2008	2009	
	Ccf	Ccf	Ccf	Ccf	Ccf	Ccf	Ccf	Ccf	Ccf	Ccf	
Hopkinsville											
Residential	807,864	792,668	760,565	776,020	762,546	763,534	765,171	766,809	768,446	770,084	
Commercial	455,057	456,379	440,528	467,977	461,586	462,500	463,750	465,000	466,250	467,500	
Industrial	518,977	443,754	349,911	351,013	339,125	338,725	338,725	338,725	338,725	338,725	
OM&G (a)	151,163	134,885	142,214	131,328	140,599	138,600	138,600	138,600	138,600	138,600	
Gratis	119,163	125,011	110,314	163,238	180,366	169,740	169,740	169,740	169,740	169,740	
Crofton											
Residential	0	33,955	36,368	37,148	36,476	36,610	36,610	36,610	36,610	36,610	
Commercial	0	6,680	7,280	7,468	8,277	7,420	7,420	7,420	7,420	7,420	
Industrial	0	0	0	0	0	0	0	0	0	0	
OM&G (a)	0	1,059	1,184	1,331	844	0	0	0	0	0	
Gratis	0	114	217	185	1,444	700	700	700	700	700	
Pembroke											
Residential	15,578	17,434	16,313	16,625	16,517	16,388	16,388	16,388	16,388	16,388	
Commercial	11,225	10,693	9,682	11,091	10,674	10,850	10,850	10,850	10,850	10,850	
Industrial	0	0	0	0	0	0	0	0	0	0	
OM&G (a)	624	1,432	1,025	1,649	1,875	1,530	1,530	1,530	1,530	1,530	
Gratis	0	0	0	0	0	0	0	0	0	0	
Wholesale	345,858	386,837	387,926	430,273	434,603	432,000	432,000	432,000	432,000	432,000	
Total	2,425,509	2,410,901	2,263,527	2,395,346	2,394,932	2,378,597	2,381,484	2,384,372	2,387,259	2,390,147	

<sup>(</sup>a) Excludes Gratis accounts.

Table 3

#### HWEA Existing Water Rates (Effective January 1, 2001)

#### Hopkinsville

	Meter M	inimum Rate	e - S/month									
	Meter		Usage									
	Size	Rate	Included									
			Ccf									
	5/8"	5.31	3									
	3/4"	7.08	4									
	1"	10.62	6									
	1 1/2"	21.24	12									
	2"	35.40	20									
	3"	63.72	36									
	4"	106.20	60									
	6"	417.72	236									
	Volu	me Charges	- \$/Ccf									
First	30	Ccf	1.77									
Next	30	Ccf	1.55									
Over	60	Ccf	1 12									
		Pembrok	е									
First	3	Ccf	8.25									
Next	17	Ccf	1.54									
Next	20	Ccf	1.80									
Next	30	Ccf	1.40									
Next	30	Ccf	1.10									
Over	100	Ccf	0.99									
		Crofton										
			City	County								
First	3	Ccf	10.18	11.83								
Over	3	Ccf	2.14	2 14								
	Wholesale (a)											
First	30	Ccf	2.30									
Next	30	Ccf	2.02									
Next	30	Ccf	1.46									
Over	90	Ccf	1.19									

#### Private Fire Protection - \$/year

Meter	
Size	Rate
	*****************
2"	85.53
3"	123.54
4"	199.57
6"	361.13
8"	522.69
10"	798.28
12"	1,140.40

Public Fire Protection - \$/hydrant/year

57.00

Hydrants

<sup>(</sup>a) Wholesale rates effective December 29, 2003.

Table 4

HWEA

Historical and Projected Service Charge Revenue

			Historical		Projected					
	2000	2001 2002		2003	2004	2005	2006	2007	2008	2009
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Hopkinsville	2,871,013	2,895,430	2,908,432	2,859,099	2,866,044	2,841,500	2,846,500	2,851,500	2,856,400	2,861,400
Crofton	0	123,692	133,873	136,513	147,999	132,300	132,300	132,300	132,300	132,300
Pembroke	52,994	58,715	55,805	57,704	56,992	57,800	57,800	57,800	57,800	57,800
Wholesale	482,221	536,360	527,105	603,068	599,669	529,500	529,500	529,500	529,500	529,500
Total	3,406,227	3,614,198	3,625,215	3,656,384	3,670,704	3,561,100	3,566,100	3,571,100	3,576,000	3,581,000

Table 5

HWEA

Historical and Projected Miscellaneous Revenue

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	Operating Revenue						Non-Operat	ing Revenue				
	Fire Pro	tection	Connect	Service	Interest	Bad Debt	Sales &	Capital by	Gain on	Misc		
Year	Public	Private	Fees	Fees	Income (a)	Recovered	Use Comp.	Developers	Sale	Income	Total	
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Historical												
2000	49,818	65,142	90,777	49,068	285,670	8,927	868	27,067	3,450	5,120	549,402	
2001	53,195	76,692	63,602	49,255	329,395	9,613	889	35,000	2,250	4,456	581,753	
2002	53,323	76,282	72,100	48,881	217,140	10,669	842	145,146	0	22,397	478,395	
2003	54,549	83,600	76,350	50,780	117,516	10,137	869	57,104	650	16,799	392,932	
2004	56,340	86,527	72,061	57,308	89,445	8,237	828	112,079	13,697	20,993	369,918	
					Proj	ected						
2005	56,000	86,000	73,500	55,000	210,300	9,700	800	104,800	4,800	20,100	490,500	
2006	56,000	87,000	73,500	55,000	460,300	9,700	800	104,800	4,800	20,100	741,500	
2007	56,000	88,000	73,500	55,000	199,300	9,700	800	104,800	4,800	20,100	481,500	
2008	56,000	89,000	73,500	55,000	102,600	9,700	800	104,800	4,800	20,100	385,800	
2009	56,000	90,000	73,500	55,000	104,500	9,700	800	104,800	4,800	20,100	388,700	

<sup>(</sup>a) Includes interest on Sinking Fund, Depreciation Fund, Operating Fund, and Construction fund.

Table 6

HWEA

Historical and Projected O&M Expense

	Source of	D '.	D' . ''	Technical	Admin. &	T-4-1
	Supply	Purification	Distribution	Services	General	Total
	\$	\$	\$	\$	\$	\$
			Historical			
2000	50,872	844,427	495,612	57,547	898,421	2,346,879
2001	18,126	1,057,464	469,962	58,938	974,517	2,579,007
2002	7,395	1,013,107	482,793	55,396	1,079,476	2,638,167
2003	7,205	927,502	485,142	76,116	1,008,233	2,504,198
2004	8,501	981,230	517,557	72,933	1,020,474	2,600,695
			Projected			
2005	7,500	1,025,500	462,700	95,900	1,054,400	2,646,000
2006	7,700	1,057,000	476,400	98,700	1,086,000	2,725,800
2007	284,400	1,089,500	490,500	101,600	1,118,400	3,084,400
2008	569,700	1,123,100	505,000	104,600	1,151,900	3,454,300
2009	587,400	1,157,700	520,000	107,700	1,186,400	3,559,200

Table 7

HWEA Proposed Capital Improvement Program

Line No.		2005	2006	2007	2008	5006	Total
		8	8	8	↔	€	<del>69</del>
,	Source of Supply	0	17,666,700	8,833,300	0	0	26,500,000
- 2	Small Distribution Mains	0	0	0	0	0	0
m	Large Distribution Mains	260,000	220,000	211,000	230,000	145,000	1,066,000
₹†	Pumping	0	110,000	0	0	0	110,000
10	Storage	130,000	0	165,000	0	0	295,000
9	Treatment Plant	0	0	0	0	0	0
	Meters & Services	20,000	15,000	25,000	20,000	30,000	110,000
∞	Hydrants	0	0	0	0	0	0
6	Administrative & General	15,000	15,000	15,000	15,000	0	000'09
10		0	36,000	36,000	36,000	36,000	144,000
Ξ	Total	425,000	18,062,700	9,285,300	301,000	211,000	28,285,000

HWEA
Capital Improvement Program Financing

Table 8

Line			Year	Ending June 3	0,	
No.	Description	2005	2006	2007	2008	2009
**************************************		\$	\$	\$	\$	\$
	Sources of Funds					
1	Beginning of Year Balance	100,000	25,111,000	9,026,700	177,400	630,432
2	Revenue Bond Proceeds	25,750,000	0	0	0	0
3	KIA Loan Proceeds	0	1,542,400	0	0	0
4	Cash Financing of Construction	436,000	436,000	436,000	336,000	236,000
5	Grants/Developer Constributions	0	0	0	0	0
6	Total Funds Available	26,286,000	27,089,400	9,462,700	513,400	866,432
	Application of Funds					
7	Major Capital Improvements	425,000	18,062,700	9,285,300	301,000	211,000
8	Issuance Costs	696,300	0	0	0	0
9	Surety Bond Fee	53,700	0	0	0	0
10	Revenue Bond Reserve Fund	0	0	0	(418,032)	0
11	Total Application of Funds	1,175,000	18,062,700	9,285,300	(117,032)	211,000
12	End of Year Fund Balance	25,111,000	9,026,700	177,400	630,432	655,432

Table 9

HWEA

Existing and Proposed Debt Service

Year	Existing Revenue Bonds	Proposed Revenue Bonds	Existing KIA Loans	Proposed KIA Loans	Total
	\$	\$	\$	\$	\$
	Deposits	s to Principal a	and Interest A	ccount	
2005	756,000	256,300	227,200	0	1,239,500
2006	768,100	1,437,600	226,900	89,100	2,521,700
2007	793,200	1,564,200	226,600	89,100	2,673,100
2008	264,600	1,867,300	226,300	89,100	2,447,300
2009	87,800	1,970,100	226,000	89,100	2,373,000
		Payments to 1	Bondholders		
2005	744,400	256,300	227,200	0	1,227,900
2006	743,700	1,025,100	226,900	11,000	2,006,700
2007	758,200	1,567,800	226,600	89,100	2,641,700
2008	784,300	1,552,500	226,300	89,100	2,652,200
2009	84,700	1,954,900	226,000	89,100	2,354,700

Table 10

# HWEA Comparison of Projected Revenue Under Existing Rates With Projected Revenue Requirements

Line			Year	Ending June 3	0,	
No.	Description	2005	2006	2007	2008	2009
		\$	\$	\$	\$	\$
1	Revenue Under Existing Rates	3,561,100	3,566,100	3,571,100	3,576,000	3,581,000
2	Fire Protection Revenue	142,000	143,000	144,000	145,000	146,000
	Additional Revenue Required					
	Fiscal Revenue Months					
	Year Increase Effective					
3	2005 32.0% 1.5	148,100	1,186,900	1,188,800	1,190,700	1,192,600
4	2006 0.0% 12.0		0	0	0	0
5	2007 13.0% 12.0			637,500	638,500	639,500
6	2008 13.0% 12.0				721,500	722,700
7	2009 0.0% 12.0					0
8	Total Additional Revenue	148,100	1,186,900	1,826,300	2,550,700	2,554,800
9	Total Service Charge Revenue	3,851,200	4,896,000	5,541,400	6,271,700	6,281,800
10	Other Operating Revenue	128,500	128,500	128,500	128,500	128,500
11	Other Non-Operating Revenue	140,200	140,200	140,200	140,200	140,200
12	Interest Income - Reserve Funds	79,900	93,400	95,000	86,400	79,300
13	Interest Income - Operations	1,600	0	0	0	8,200
14	Interest Income - Construction	128,800	366,900	104,300	16,200	17,000
15	Total Revenue	4,330,200	5,625,000	6,009,400	6,643,000	6,655,000
16	Operation and Maintenance Expense	2,646,000	2,725,800	3,084,400	3,454,300	3,559,200
17	Payments to CCWD	112,300	80,200	0	0	0
18	Net Revenue	1,571,900	2,819,000	2,925,000	3,188,700	3,095,800
	Debt Service					
19	Existing Revenue Bonds	756,000	768,100	793,200	264,600	87,800
20	Proposed Revenue Bonds (a)	256,300	1,437,600	1,564,200	1,867,300	1,970,100
21	Total Parity Debt	1,012,300	2,205,700	2,357,400	2,131,900	2,057,900
22	Existing KIA Loans	227,200	226,900	226,600	226,300	226,000
23	Proposed KIA Loans	0	89,100	89,100	89,100	89,100
24	Total Subordinate Debt	227,200	316,000	315,700	315,400	315,100
25	Total Debt Service	1,239,500	2,521,700	2,673,100	2,447,300	2,373,000
26	Cash Financing of Major Improvements	436,000	436,000	436,000	336,000	236,000
27	Net Annual Balance	(103,600)	(138,700)	(184,100)	405,400	486,800
28	Beginning of Year Balance (b)	267,500	163,900	25,200	(158,900)	246,500
29	End of Year Balance (b)	163,900	25,200	(158,900)	246,500	733,300

<sup>(</sup>a) Proposed 2005 series assumes Deferred debt service schedule.

<sup>(</sup>b) Excludes operating reserve fund balances.

Table 11

# HWEA Coverage Requirements

Line			Year	Ending June 3	0,	
No.		2005	2006	2007	2008	2009
		\$	\$	\$	\$	\$
	Rate Covenant Coverage					
1	Projected Net Revenues	1,571,900	2,819,000	2,925,000	3,188,700	3,095,800
2	Net Revenue Adjustment (a)	1,036,900	0	0	0	0
3	Adjusted Net Revenue	2,608,800	2,819,000	2,925,000	3,188,700	3,095,800
4	Maximum Annual Debt Service (b)	2,336,800	2,336,800	2,336,800	2,336,800	2,044,300
5	Projected Actual Net Revenue as a					
	Percentage of Maximum Debt Service	111.64%	120.64%	125.17%	136.46%	151.44%
	Additional Bond Coverage					
6	Preceding Year Projected Net Revenues	1,587,523				
7	Net Revenue Adjustment (a)	1,174,625				
8	Adjusted Net Revenue	2,762,148				
9	Maximum Annual Debt Service (b)	2,336,800				
10	Projected Actual Net Revenue as a					
	Percentage of Maximum Debt Service	118.20%				
	Combined Utility Additional Bond Cov	erage				
11	Preceding Year Projected Net Revenues	3,058,837				
12	Net Revenue Adjustment (a)	1,174,625				
13	Adjusted Net Revenue	4,233,462				
14	Maximum Annual Debt Service (b)	3,091,400				
15	Projected Actual Net Revenue as a					
	Percentage of Maximum Debt Service	136.94%				

- (a) Annualized revenue increase of 32 percent in Fiscal Year 2005.
- (b) Maximum annual debt service on parity bonds, including the Series 1993, Series 1996, Series 2002, and the proposed Series 2005 Bonds.

Table 12

## HWEA Cost of Service Test Year 2006

Line No.		Operating Expense	Capital Cost	Total
110.				
		\$	\$	\$
	Revenue Requirements			
1	Operation & Maintenance Expense	2,725,800		2,725,800
2	Debt Service Requirements		2,521,700	2,521,700
3	Cash Financing of Construction		436,000	436,000
4	Payments to CCWD	80,200		80,200
5	Total	2,806,000	2,957,700	5,763,700
	Revenue Requirements Met from Othe	r Sources		
6	Other Operating Revenue	128,500		128,500
7	Other Nonoperating Revenue		140,200	140,200
8	Interest Income	25,200	435,100	460,300
9	Change in Funds Available	67,500	71,200	138,700
10	Full Year Rate Adjustment		0	0
11	Total	221,200	646,500	867,700
12	Net Costs to be Met from Charges	2,584,800	2,311,200	4,896,000

Table 13

HWEA

Allocation of Net Plant Investment
To Functional Cost Components

Test Year 2006

						Retail						Wholesale	
		Net		Extra C	apacity			Direct Fire	Protection			Extra C	apacity
Line No.	Description	Plant Investment	Base	Maximum Day	Maximum Hour	Meter Reading & Billing	Meters & Services	Public	Private	Crofton Direct	Base	Maximum Day	Maximum Hour
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Source of Supply	483,800	297,600	89,400							74,400	22,400	
2	Small Distribution Mains	313,000	156,500	47,000	109,500								
3	Large Distribution Mains	8,431,100	3,372,500	1,011,800	2,360,600						843,100	252,900	590,200
4	Pumping	284,000	174,700	52,500							43,700	13,100	
5	Storage	1,516,900	606,800	182,000	424,700						151,700	45,500	106,200
6	Treatment Plant	8,971,300	5,519,100	1,657,900							1,379,800	414,500	
7	Meters & Services	1,466,600					1,466,600						
8	Hydrants	386,200						386,200					
9	Administrative & General	879,900	397,900	119,500	113,700	0	57,600	15,200	0		111,400	33,500	31,100
10	Total	22,732,800	10,525,100	3,160,100	3,008,500	0	1,524,200	401,400	0	0	2,604,100	781,900	727,500
11	Capital Costs from Rates	2,311,200	1,053,400	316,300	301,100	0	152,500	40,200	0	36,000	260,600	78,300	72,800

Table 14

HWEA

Allocation of Operation & Maintenance Expense
To Functional Cost Components
Test Year 2006

						Retail					Wholesale	
		Total		Extra C	apacity			Direct Fire	Protection		Extra C	apacity
Line No.	Description	O&M Cost	Base	Maximum Day	Maximum Hour	Meter Reading & Billing	Meters & Services	Public	Private	Base	Maximum Day	Maximum Hour
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Source of Supply	7,700	6,200							1,500		
	Purification											
2	Chemicals	357,300	287,500							69,800		
3	Power	216,600	139,400	29,000						33,900	14,300	
4	All Other	483,100	298,900	74,600						72,600	37,000	
	Distribution											
5	Small Mains	2,200	1,100	300	800							
6	Large Mains	60,100	24,200	6,000	18,400					5,900	3,000	2,600
7	Hydrants	4,100						4,100				
8	Meters and Services	58,400					58,400					
9	All Other (a)	351,600	120,000	36,000	84,000	0	42,600	11,200	0	28,900	8,700	20,200
10	Technical Services (b)	98,700	36,700	9,600	11,200	5,300	19,100	1,900	0	8,800	4,000	2,100
	Admin. & General											
11	Meter Reading & Collection	44,900				44,900						
12	Postage	29,600				29,600						
13	All Other (b)	1,011,500	375,100	98,100	115,200	54,100	195,900	19,700	0	90,600	41,200	21,600
14	Total Operating Expenses	2,725,800	1,289,100	253,600	229,600	133,900	316,000	36,900	0	312,000	108,200	46,500
15	Payments to CCWD	80,200	37,800	7,500	6,800	3,900	9,300	1,100	0	9,200	3,200	1,400
16	Less Expenses Met from Other Sources	221,200	104,600	20,600	18,600	10,900	25,600	3,000	0	25,300	8,800	3,800
17	Total Operating Expenses	2,584,800	1,222,300	240,500	217,800	126,900	299,700	35,000	0	295,900	102,600	44,100

<sup>(</sup>a) Allocated on the basis of plant investment in Small Distribution Mains, Large Distribution Mains, Storage, Meters & Services, and Hydrants.

<sup>(</sup>b) Allocated on the basis of all other expenses excluding Chemicals, Power, Technical Services, and Admin. & General All Other.

Table 15

#### HWEA Units of Service Test Year 2006

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Water t	Usage	Ν	Maximum Day		N	laximum Hour		Equivalent		Direct Fire	Protection
Line No.		Annual	Average Day	Capacity Factor	Total Capacity	Extra Capacity	Capacity Factor	Total Capacity	Extra Capacity	Meters & Services	Bills	Public	Private
	-	Ccf	Ccf/day		Ccf/day	Ccf/day		Ccf/day	Ccf/day			Hydrants	Hydrants
1	Hopkinsville	1,706,200	4,675	150%	7,013	2,338	210%	9,818	2,805	14,454	164,724		
2	Crofton	44,000	121	225%	272	151	315%	381	109	576	6,912		
3	Pembroke	28,800	79	225%	178	99	315%	249	71	279	3,348		
4	Wholesale	432,000	1,184	225%	2,664	1,480	315%	3,730	1,066	12	144		
5	Public Fire Protection				304	304		3,650	3,346			1,061	
6	Private Fire Protection				97	97		1,163	1,066				338
7	Total	2,211,000	6,059		10,528	4,469		18,991	8,463	15,321	175,128	1,061	338

Table 16

#### HWEA Unit Cost of Service Test Year 2006

		(1)	(2)	(3)	(4)	(5) Retail	(6)	(7)	(8)	(9)	(10)	(11) Wholesale	(12)
				Extra C	apacity	Meter		Direct Fire	Protection			Extra C	apacity
Line No.		Total	Base	Maximum Day	Maximum Hour	Reading & Billing	Meters & Services	Public	Private	Crofton Direct	Base	Maximum Day	Maximum Hour
	-	\$	Ccf	Ccf/day	Ccf/day	Bills	Equiv.	Hydrants	Hydrants	Ccf	Ccf	Ccf/day	Ccf/day
	Units of Service						Meters						
1	Hopkinsville		1,706,200	2,338	2,805	164,724	14,454						
2	Crofton		44,000	151	109	6,912	576			44,000			
3	Pembroke		28,800	99	71	3,348	279						
4	Public Fire Protection			304	3,346			1,061	220				
5	Private Fire Protection			97	1,066				338				
6	Total Retail		1,779,000	2,989	7,397	174,984	15,309	1,061	338	44,000	0	0	0
7	Wholesale										432,000	1,480	1,066
8	Total		1,779,000	2,989	7,397	174,984	15,309	1,061	338	44,000	432,000	1,480	1,066
	Costs of Service												
	Net Operating Expense												
9	Total Cost - \$	2,584,800	1,222,300	240,500	217,800	126,900	299,700	35,000	0		295,900	102,600	44,100
10	Unit Cost - \$/unit		0.68707	80.46169	29.44437	0.72521	19.57659	32.98775	0.00000		0.68495	69.32432	41.36961
	Capital Costs												
11	Total Cost - \$	2,311,200	1,053,400	316,300	301,100	0	152,500	40,200	0	36,000	260,600	78,300	72,800
12	Unit Cost - \$/unit		0.59213	105.82134	40.70569	0.00000	9.96140	37.88878	0.00000	0.81818	0.60324	52.90541	68.29268
13	Total Unit Cost of Service		1.27920	186.28304	70.15006	0.72521	29.53799	70.87653	0.00000	0.81818	1.28819	122.22973	109.66229
	Total Cost of Service												
14	Retail - \$	4,041,700	2,275,700	556,800	518,900	126,900	452,200	75,200	0	36,000	0	0	0
15	Wholesale - \$	854,300	0	0	0	0	0	0	0	0	556,500	180,900	116,900
16	Total	4,896,000	2,275,700	556,800	518,900	126,900	452,200	75,200	0	36,000	556,500	180,900	116,900

Table 17

HWEA Allocated Costs of Service to Customer Classes Test Year 2006

(12)	acity	Maximum Hour		109.66229											-	116 900	006,011						116,900	
(11) Wholesale	Extra Capacity	Maximum Day		122.22973												180,000	100,000						180,900	
(10)		Base		1.28819											9	432,000	000,000						556,500	
(6)		Crofton Direct		0.81818				44 000	36,000	20,000													0	
(8)	rotection	Private		0.00000																	220	0	0	
(7)	Direct Fire Protection	Public		70.87653														•	190,1	007.67			75,200	
(9)		Meters & Services		29.53799		14,454	426,900	715	070	17,000	020	0000	8,200	452,100									452,100	
(5) Retail	Meter	Reading & Billing		0.72521		164,724	119,500	6.013	0,912	2,000	2 340	0,040	2,400	126,900									126,900	
(4)	acity	Maximum Hour		70.15006		2,805	196,800	001	109	009'/	ŗ	1 000	000,5	209,400					3,346	734,700		74,800	518,900	
(3)	Extra Capacity	Maximum Day		186.28304		2,338	435,500	191	151	28,100	Ġ	66	18,400	482,000					304	26,600	į	97 18,100	556,700	
(2)	in a second seco	Base		1.27920		1,706,200	2,182,800	900	44,000	56,300		28,800	36,800	2,275,900									2,275,900	
(=)		Total	₩				3,361,500			150,000			70,800	3,582,300			854,300			366,500		92.900	4,896,000	
		Line No.		Unit Cost of Service - \$/unit	<b>Retail</b> Honkinsville		3 Allocated Cost - \$	Crofton		5 Allocated Cost - \$	Pe		7 Allocated Cost - \$	8 Subtotal	Wholesale	9 Units of Service	10 Allocated Cost - \$	Public Fire Protection		12 Allocated Cost - \$	Private Fire Protection	13 Units of Service	T	
			1																					

Table 18

HWEA

Comparison of Allocated Cost of Service with Revenue Under Existing Rates

Test Year 2006

		(1)	(2)	(3)
			Revenue	
		Allocated	Under	Indicated
Line		Cost of	Existing	Revenue
No.		Service	Rates	Adjustment
		\$	\$	***************************************
1	Hopkinsville	3,361,500	2,846,500	18.1%
2	Crofton	150,000	132,300	13.4%
3	Pembroke	70,800	57,800	22.5%
4	Wholesale	854,300	529,500	61.3%
5	Public Fire Protection	366,500	56,000	554.5%
6	Private Fire Protection	92,900	87,000	6.8%
7	Total	4,896,000	3,709,100	32.0%

Table 19

# **HWEA** Existing and Proposed Water Rates (Proposed Rates Effective May 1, 2005)

	Usage Allowance	Existing Rates	Proposed Rates			
Uankinavilla						
Hopkinsville Minimum Bil						
5/8"	3 Ccf	5.31	6.25			
3/4"	4 Ccf	7.08	11.35			
1"	6 Ccf	10.62	16.10			
1 1/2"	12 Ccf	21.24	29.10			
2"	20 Ccf	35.40	47.80			
3"	36 Ccf	63.72	99.50			
4"	60 Ccf	106.20	155.00			
6"	236 Ccf	417.72	525.00			
Volume Char	ges - \$/Ccf					
First 30 Ccf	-	1.77	2.09			
Next 30 Ccf		1.55	1.83			
Over 60 Ccf		1.12	1.32			
Pembroke						
First 3 Ccf		8.25	9.20			
Next 17 Ccf	•	1.54	2.05			
Next 20 Ccf	•	1.80	2.39			
Next 30 Ccf		1.40	1.86			
Next 30 Ccf	•	1.10	1.46			
Over 100 Co	ef	0.99	1.31			
Crofton						
First 3 Ccf		10.18	11.61			
Over 3 Ccf		2.14	2.44			
Wholesale						
First 30 Ccf		2.30	2.72			
Next 30 Ccf	•	2.02	2.38			
Next 30 Ccf		1.46	1.72			
Over 90 Ccf	,	1.19	1.93			
Private Fire Protection - \$/year						
2"		85.53	44.40			
3"		123.54	44.40			
4"		199.57	94.62			
6"		361.13	274.85			
8"		522.69	585.71			
10"		798.28	1,053.31			
12"		1,140.40	1,701.39			
	Protection - \$	/hydrant/year				
Hydrants		57.00	350.00			

Table 20

HWEA
Comparison of Revenue Under Proposed
Rates with Allocated Cost of Service
Test Year 2006

		Revenue		Revenue As	
		Under	Allocated	A Percent	
Line		Proposed	Cost of	of Cost of	
No.		Rates	Service	Service	
		\$	\$		
1	Hopkinsville	3,354,000	3,361,500	99.8%	
2	Crofton	151,100	150,000	100.7%	
3	Pembroke	70,900	70,800	100.1%	
4	Wholesale	858,800	854,300	100.5%	
5	Public Fire Protection	366,500	366,500	100.0%	
6	Private Fire Protection	92,800	92,900	99.9%	
7	Total	4,894,100	4,896,000	100.0%	

Table 21

HWEA

Comparison of Typical Monthly Water Bills
Under Existing and Proposed Rates
(Proposed Rates Effective May 1, 2005)

S/8"   2   5.31   6.25   0.94   17.5	Meter Size	Monthly Usage	Existing Rates	Proposed Rates	Increase	Percent Increase
5/8"	10,220,000	Ccf	\$	\$	\$	%
5/8" 5 8 85 10 45 1.60 18 8 5 5/8" 10 10 17 70 20 90 3 20 18 8 3/4" 2 708 11 35 4 27 60 2 34" 5 8 85 10 45 1 60 18 6 3/4" 15 8 85 10 45 1 60 18 6 3/4" 15 8 85 10 45 1 60 18 6 3/4" 10 17 70 20 90 3 20 18 1 1" 5 10 62 16 10 5 48 51 1 1" 15 26 55 31 35 4 80 18 8 18 8 11 1/2" 10 21 24 29 10 7 86 37 1 1/2" 20 35 40 41 80 6 40 18 6 2" 15 35 40 47 80 12 40 35 1 1/2" 50 84 10 99 30 15 20 18 1 3" 35 63 72 99 50 35 78 56 1 3" 3" 35 63 72 99 50 35 78 56 1 3" 3" 100 144 40 170 40 26 00 18 8 0 45 1 4" 55 106 20 155 00 48 80 45 1 4" 300 368 40 43 44 0 66 00 17 9 6" 230 41 77 2 525 00 107 28 25 1 6" 500 592 40 698 40 106 00 17 3 10 10 19 03 23 55 4 52 23 1 15 26 20 34 43 4 40 5 9 62 27 5 15 5 20 20 34 43 4 40 5 9 62 27 5 15 5 20 20 34 43 4 40 5 9 62 27 5 15 5 20 29 33 3 38 7 95 94 62 32 25 50 29 33 3 38 7 95 94 62 32 25 50 29 33 3 38 7 95 94 62 32 25 50 29 33 3 38 7 95 94 62 32 25 50 29 33 3 38 7 95 94 62 32 25 50 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 0 29 33 3 38 7 95 94 62 32 25 25 25 0 29 33 3 38 7 95 94 62 32 25 25 25 29 33 3 38 7 95 94 62 32 25 25 25 25 25 25 25 25 25 25 25 25 25	Hopkinsville					
10	5/8"	2	5.31	6.25	0.94	17.70
3/4"	5/8"	5	8.85	10.45	1.60	18.08
3/4" 5 8 85 10 45 160 18 ( 3/4" 10 1770 20 90 320 18 ( 1" 5 10 62 16 10 548 51 ( 1" 15 26 55 31 35 480 18 81 11/2" 10 21 24 29 10 786 37 ( 11/2" 20 35 40 41 80 640 18 ( 2" 15 35 40 47 80 12 40 35 ( 2" 50 84 10 99 30 15 20 18 ( 3" 35 63 72 99 50 35 78 56 ( 3" 30 100 144 40 170 40 26 00 18 ( 4" 55 106 20 155 00 48 80 45 9 4 ( 4" 300 368 40 434 40 66 00 17 9 ( 6" 230 41 7 72 525 00 10 7 28 25 6 ( 6" 230 41 7 72 525 00 10 7 28 25 6 ( 6" 230 41 7 72 525 00 10 7 28 25 6 ( 6" 230 41 7 72 525 00 10 7 28 25 6 ( 5" 5 11 33 13 30 1 97 17 3 10 19 03 23 55 4 52 23 3 ( 15 26 73 33 80 7 07 26 6 ( 20 34 43 44 05 9 62 27 9 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"	10	17.70	20.90	3.20	18.08
3/4" 10 17.70 20.90 3.20 18.0 1" 5 10.62 16.10 548 51.0 1" 15 26.55 31.35 4.80 18.1 1 1/2" 10 21.24 29.10 7.86 37.0 1 1/2" 20 35.40 41.80 6.40 18.1 2" 15 35.40 47.80 12.40 35.0 2" 50 84.10 99.30 15.20 18.0 3" 35 63.72 99.50 35.78 56.1 3" 100 144.40 170.40 26.00 18.0 4" 55 106.20 15.50 48.80 48.80 45.4 4" 300 368.40 434.40 66.00 17.5 6" 230 417.72 525.00 107.28 25.6 6" 500 592.40 698.40 106.00 17.3 6" 230 417.72 525.00 107.28 25.6 6" 500 592.40 698.40 106.00 17.3 10 19.03 23.55 4.52 23.3 15 26.73 33.80 70.7 26.6 20 34.43 44.05 96.2 23.3 15 26.73 33.80 70.7 26.6 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 30.52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.43 67.95 15.52 29.0 40 70.43 91.85 21.42 30.4 30 52.60 293.33 387.95 94.62 32.2 50 293.33 387.95 94.62 32.2 50 293.33 387.95 94.62 32.2 50 538.86 40.89 50.3 14.0 10 25.16 28.69 3.53 14.0 20 46.56 53.09 6.53 14.0 20 46.56 63.09 6.53 14.0 20 46.56 63.09 6.53 14.0 20 46.56 63.09 6.53 14.0 20 10.77.76 24.82 9 30.53 14.0 20 46.56 63.09 65.3 14.0 250 538.76 614.29 75.53 14.0 250 538.76 614.29 75.53 14.0 250 538.76 614.29 75.53 14.0 250 538.76 614.29 75.53 14.0 250 538.76 614.29 75.53 14.0 250 363.80 513.40 14.96 41.5 50 10.9.40 12.9.20 19.80 18.5 75 151.50 178.80 27.30 18.6 250 363.80 513.40 14.96 41.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.5 50 10.9.40 12.9.20 19.80 18.0 50 10.9.40 12.9.20 19.80 18.5	3/4"	2	7.08	11 35	4.27	60.31
1" 5 10 62 16 10 5 48 51 6 11 1" 15 26 55 31 35 480 188 181 11/2" 20 35 40 41 80 6 40 181 2" 15 35 40 47 80 12 40 35 14 2" 15 35 40 47 80 12 40 35 18	3/4"	5	8.85	10.45	1.60	18.08
1" 5 10 62 16 10 5 48 51 6 11 1" 15 26 55 31 35 480 188 181 11/2" 20 35 40 41 80 6 40 181 2" 15 35 40 47 80 12 40 35 14 2" 15 35 40 47 80 12 40 35 18	3/4"	10	17.70	20.90	3.20	18.08
1" 15 26 55 31 35 480 18.0  1 1/2" 10 21 24 29 10 786 37.0  1 1/2" 20 35 40 41 80 640 18.0  2" 15 35 40 47 80 12 40 35.0  2" 50 84 10 99 30 15 20 18.0  3" 35 63 72 99 50 35 78 56.0  3" 100 144 40 170 40 26.00 18.0  4" 55 106 20 155 00 48 80 45.9  4" 300 368 40 434 40 66 00 17.9  6" 230 41 7.72 525 00 10 72 82 25.0  6" 500 592 40 698 40 106 00 17.3  Pembroke  2 8 25 9 20 0 95 11.5  5 11 33 13 30 1 97 17.3  10 19 03 23 55 4.52 23.7  15 26 73 33.80 70 7 26.6  20 34 43 44 05 9.62 27.3  30 52 43 67 95 15.52 29.0  40 70 43 91 85 21.42 30.4  75 11 793 154.95 37 02 31.3  100 145 43 191.45 46.02 31.1  100 145 43 191.45 46.02 31.1  100 25 16 28.69 3.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 53 09 6.53 14.0  20 46.56 67 77.49 9.53 14.0  100 217 76 248 29 30.53 14.0  250 293 38 715 45 175 62 32.2  Nholesale  25 5 7.50 68.00 10.50 18.0  25 10.9 40 12.9 20 19.8 0 18.0  25 38.76 614 29 75.53 14.0  25 0 109 40 129 20 19.8 0 18.0  75 151 50 178 80 27 30 18.0  100 185 30 22.3 90 38.60 20.0  250 661 30 995.90 33.460 60.0  1,000 1,256 30 1,960.90 704.60 56.6  5,000 6,016.30 96.80 90 3,664 60 60.0  10,000 11,966 30 1,960.90 7,364 60 61.2  20,000 23,866 30 38,630.90 14,764 60 61.3	1"	5		16.10	5 48	51.60
1 1/2" 10 21 24 29 10 7 86 37.0 1 1/2" 20 35 40 41 80 640 184 2" 15 35 40 47 80 12 40 35.0 2" 50 84 10 99 30 15 20 18 8 3" 35 63 72 99 50 35 78 56.3 3" 100 144 40 170 40 26 00 18 8 4" 55 106 20 155 00 48 80 45.9 4" 300 368 40 434 40 66 00 17.9 6" 230 417.72 525 00 107 28 25 6 6" 500 592 40 698 40 106 00 17.8 2**Pembroke**  2 8 25 9 20 0.95 11.3 5 111 33 13 30 1.97 17.3 10 19 03 23 5.5 4.5 2 23.3 15 26 73 33.8 0 707 26 6.3 30 52 43 67 95 15.5 2.9 40 40 70 43 91 85 21 42 30 47 75 117.9 3 15 4.9 5 37 02 31 1.3 100 145 43 191 45 46.0 2 31.0 250 293 33 387 95 94 62 32.3 500 539 83 715 45 175 62 32 2.5 500 500 500 500 500 500 500 500 500 50						18.08
1 1/2"						37.01
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250     363.80     513.40     149.60     41.       500     661.30     995.90     334.60     50.6       1,000     1,256.30     1,960.90     704.60     56.0       5,000     6,016.30     9,680.90     3,664.60     60.9       10,000     11,966.30     19,330.90     7,364.60     61.3       20,000     23,866.30     38,630.90     14,764.60     61.3		75	151.50	178.80	27.30	18.0
500     661.30     995.90     334.60     50.6       1,000     1,256.30     1,960.90     704.60     56.0       5,000     6,016.30     9,680.90     3,664.60     60.9       10,000     11,966.30     19,330.90     7,364.60     61.9       20,000     23,866.30     38,630.90     14,764.60     61.9		100	185.30	223.90	38.60	20.8.
500     661.30     995.90     334.60     50.6       1,000     1,256.30     1,960.90     704.60     56.0       5,000     6,016.30     9,680.90     3,664.60     60.9       10,000     11,966.30     19,330.90     7,364.60     61.9       20,000     23,866.30     38,630.90     14,764.60     61.9		250	363.80	513.40	149.60	41.1
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#### **Customer Totals**

		,				Z+ ~ 7	SINW
Hopkinsville Division	Residential	Commercial	Industrial	OM & G	Total	trats	A
FYE 6/30/00	11,517=	1,721	81 ~	127~	13,446	140	12
FYE 6/30/01	11,494	1,743	85.⁄	131 🗸	13,453	15_	12-
FYE 6/30/02	11,517	1,740~	81~	132~	13,470	16-	IZ-
FYE 6/30/03	11,418	1,847 ~	83 ∽	137~	13,485		12
FYE 6/30/04	11,632	1,845~	85~	134 ~	13,696	18	12
Pembroke Division				,	070		
FYE 6/30/00	240 🗸	34 🍃	-	4	278		(~
FYE 6/30/01	<b>236</b> ~	39 ~	~	3 ~	278		10
FYE 6/30/02	240 ∕	<b>33</b> √	•	4	277		ì
FYE 6/30/03	242~	32~	•	4	278		, ,
FYE 6/30/04	241~	35.∕	•	4 /	280		( -
Crofton Division							
FYE 6/30/00	N/A	N/A	N/A	N/A	N/A		
FYE 6/30/01	524~	53 ✓	-	2	579		
FYE 6/30/02	519	55 ~		4	578		
FYE 6/30/03	523 ~	<b>56</b> ~	-	4	583		
FYE 6/30/04	523 ∨	53 ~	•	3	579		
• • • • • • •							

### Black & Veatch

TELEPHONE MEMORANDUM	
Client HWEA	B&V Project
Project	B&V File
Subject	Date 2/1
	Time
To/From Ellis Joine	
Company: Phone No.:	
Recorded by: A White	
Recorded by. Frigoriae	
Call from Ellis. Th	e historical usage for
THE RESIDENCE OF THE PROPERTY	HWY 272) Was Norg
	following Whole about
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2/1 2-110il.	
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### White, Anna M.

From:

Ellis Joiner [ejoiner@hwea-ky.com]

3ent:

Tuesday, February 01, 2005 5:40 AM

To:

White, Anna M.

Subject:

FYE 6/30/02 FYE 6/30/03

FYE 6/30/04

Christian County Water District, Gratis and Fire Charges

Anna,

The following numbers should be taken out of the revenue and consumption totals (OM & G) that you received last week.

Actual CONS. Christian County Water District Consumption 44,650,070 Cubic Feet FYE 6/30/00 FYE 6/30/01 49,662,940 Cubic Feet 49,149,800 Cubic Feet (1,600 Cubic Feet is Pembroke FYE 6/30/02 Division) 54,756,630 Cubic Feet (8,961 Cubic Feet is Pembroke FYE 6/30/03 Division) 54,895,860 Cubic Feet (13,818 Cubic Feet is Pembroke FYE 6/30/04 Division) Christian County Water District Revenue (FYE 6/30/04) Hopkinsville \$683,902.11 2,109.32 Pembroke Gratis Consumption - Hopkinsville Division FYE 6/30/00 11,927,420 Cubic Feet 14 Customers 12,501,080 Cubic Feet 15 Customers FYE 6/30/01 11,031,350 Cubic Feet FYE 6/30/02 16 Customers FYE 6/30/03 16,323,770 Cubic Feet 17 Customers FYE 6/30/04 18,036,570 Cubic Feet√ 18 Customers Fire Hydrant Charges - Hopkinsville Division FYE 6/30/00 \$49,818.00 FYE 6/30/01 \$53,195.25 FYE 6/30/02 \$53,523.00 FYE 6/30/03 \$54,549.00 FYE 6/30/04 \$56,339.75 Fire Service Fees - Hopkinsville Division FYE 6/30/00 \$65,141.50 FYE 6/30/01 \$76,692.29

\$76,282.30

\$83,599.78

\$86,526.80

# White, Anna M.

From:

Sent:

Ellis Joiner [ejoiner@hwea-ky.com] Tuesday, February 01, 2005 1:22 PM White, Anna M. Crofton Gratis

To: Subject:

### Anna,

The	numbers	for Crofton are as follows:	
FYE	6/30/00	N/A	
FYE	6/30/01	11,400 Cubic Feet	6 Customers
FYE	6/30/02	21,690 Cubic Feet	6 Customers
FYE	6/30/03	18,540 Cubic Feet/	6 Customers
FYE	6/30/04	144,400 Cubic Feet /	7 Customers

## Hopkinsville Division

Schedule of Consumption in Cubic Feet FYE 6/30/00-FYE 6/30/04				W.C.	udiocours : wholeval	L
Hopkinsville Division						
	Residential	Commercial	Industrial	<u>OM &amp; G</u>	<u>Total</u>	
FYE 6/30/00	80,786,400 <	45,505,720	51,897,720~	71,693,750	249,883,590	
FYE 6/30/01	79,266,820		44,375,430~	75,652,520	244,932,690	
FYE 6/30/02	76,056,500~		34,991,120~	74,400,900	229,501,300	
FYE 6/30/03	77,602,010~	46,797,650~	35,101,290~	84,204,270	243,705,220	
FYE 6/30/04	76,254,610~	46,158,640~	33,912,520	86,978,520	243,304,290	
Pembroke Division						
FYE 6/30/00	1,557,770~	1,122,540~	N/A	62,390	2,742,700	
FYE 6/30/01	1,743,390~		N/A	143,150	2,955,840	
FYE 6/30/02	1,631,260~	968,220~	N/A	104,120	2,703,600	
FYE 6/30/03	1,662,530~	1,109,080 <	N/A	173,910	2,945,520	
FYE 6/30/04	1,651,720~	1,067,430~	N/A	201,320	2,920,470	
Crofton Division						
FYE 6/30/00	N/A	N/A	N/A	N/A	0	
FYE 6/30/01	3,395,510		N/A	117,280	4,180,750	
FYE 6/30/02	3,636,760 ~		N/A	140,100	4,504,830	
FYE 6/30/03	3,714,840		N/A	151,610	4,613,220	
FYE 6/30/04	3,647,590	•	N/A	228,750	4,704,070	
		,,,,,,,	* *			

operation, maintenance, and replacement of the wastewater works, debt service obligations, and user charge rates. Based on such review, the City Council shall revise, when necessary, the schedule of user charge rates to accomplish the following:

- (1) Maintain an equitable distribution of operation, maintenance, and replacement costs among users of the treatment system; and
- (2) Generate sufficient revenues to offset costs associated with the proper operation and maintenance of the wastewater system and to meet debt service requirements.
- (C) Excessive strength and toxicity surcharges shall be reviewed at the time of and in conjunction with the review of user charges. Surcharge rates shall be revised where necessary to reflect current treatment and monitoring costs. Surcharge rates may be modified by regulation duly passed by the Sewerage and Water Works Commission.
- (D) Each user shall be notified, at least annually, in conjunction with a regular bill of the rate and that portion of the total charge which is attributable to operation, maintenance, and replacement of the wastewater system.

  (Ord. 34-93, passed 12-21-93)

# § 53.20 METHOD OF BILLINGS AND COLLECTIONS: DISCONTINUATION OF SERVICE FOR NONPAYMENT.

- (A) All users shall be billed monthly. Bills for water and sewer services shall be billed, collected, and enforced together, so that when any bill has remained unpaid and becomes delinquent, the water service to the delinquent premises can be and will be discontinued and will not be reinstated until the entire bill for both water and sewer service is paid in full.
- (B) Sewer charges shall be billed monthly on the basis of each user's monthly water consumption/sewerage contribution. Sewer charges to any customer who is initially rendered services for less than one month shall be prorated on the basis of the charges set forth in § 53.18 for the fractional part of the month for which service was rendered.

  (Ord. 34-93, passed 12-21-93)

#### § 53.21 CUTOFF FOR NONPAYMENT.

(A) In the event the water rate or the sewerage rate is not paid by the fifteenth day after the due date, the Sewerage and Water Works Commission is authorized to disconnect and cut off the water service to the premises.

(Ord. 34-93, passed 12-21-93; Am. Ord. 28-99, passed 8-17-99; Am. Ord. 13-2000, passed 8-15-00)

# 5 53.22 DELINOUENT ACCOUNT TO BE PAID IN PULL PRIOR TO NEW SERVICE.

No new service for sewer or water will be made available to any customer who remains delinquent on any

previously existing account for either sewer or water service. (Ord. 34-93, passed 12-21-93)

#### § 53.23 LATE PAYMENT PENALTY.

A late payment penalty of 10% will be added to each delinquent bill. A bill will be considered delinquent on the fifth day after the due date. (Ord. 34-93, passed 12-21-93)

#### WATER RATES

Rates

#### § 53.35 MONTHLY WATER RATES.

The monthly rates and charges for water service furnished by the system are fixed and established on a monthly basis as follows:

#### (A) Meter minimum rate.

		KALES
1	Monthly minimum for 5/8 inch meter	\$ 5.31 per 300 cu. ft.
2	Monthly minimum for 3/4 inch meter	\$ 7.08 per 400 cu. ft.
3	Monthly minimum for 1 inch meter	\$ 10.62 per 600 cu. ft.
4	Monthly minimum for 1-1/2 inch meter	\$ 21.24 per 1,200 cu. ft.
5	Monthly minimum for 2 inch meter	\$ 35.40 per 2,000 cu. ft.
6	Monthly minimum for 3 inch meter	\$ 63.72 per 3,600 cu. ft.
7	Monthly minimum for 4 inch meter	\$ 106.20 per 6,000 cu. ft.
8	Monthly minimum for 6 inch meter	\$ 417.72 per 23,600 cu. ft.

(B) Water consumption rates for Hopkinsville Division water usage. Subject to the minimum monthly water rate specified above, the following metered charges shall be made for each 100 cubic feet of water consumption per month to customers of all size connections to the Hopkinsville Division:

1	Number of Cubic Feet of Water Per Month	Monthly Charge Per 100 Cubic Feet
2	Minimum bill - 300 feet or less	\$5.31
3	Next 2,700 cu. ft.	1.77
4	Next 3,000 cu. ft.	1.55
5	All over 6,000 cu. ft.	1-12

(C) Water consumption rates for Pembroke Division usage. Subject to the minimum monthly water rate specified above, the following metered charges shall be made for each 100 cubic feet of water consumption per month to customers of all size connections to the Pembroke Utility Division.

#### PEMBROKE DIVISION WATER SERVICES MONTHLY RATE SCHEDULE

1	Water Consumption Per Mooth	Rate
2	First 300 cu. ft.	\$8.25
3	Next 1,700 cu. ft.	1.54/100 cu. ft.
4	Next 2,000 cu. ft.	1.80/100 cu. ft.
5	Next 3,000 cu. ft.	1.40/100 cu. ft.
6	Next 3,000 cu. ft	1.10/100 cu. ft.
7	All over 10,000 cu. ft.	0.986/100 cu. ft.

(D) Water consumption rates for Crofton Utility Division usage. The following schedule of rates shall be made for each 100 cubic feet of water consumption per month to customers of all size connections to the Crofton Utility Division.

# CROFTON UTILITY DIVISION WATER SERVICES MONTHLY RATE SCHEDULE

Inside Grofton City Limits First 300 CF All over 300 CF	\$10.18 Flat Rate 2.14 per 100 CF
Outside Crofton City Limits First 300 CF All over 300 CF	\$11.83 Flat Rate 2.14 per 100 CF

(Ord. 35-93, passed 12-21-93; Am. Ord. 9-95, passed 5-16-95; Am. Ord. 28-99, passed 8-17-99; Am. Ord. 13-2000, passed 8-15-00; Am. Ord. 30-2000, passed 11-21-00)

#### § 53.36 FIRE HYDRANT RENTALS.

(A) Private fire protection (not metered). The rates or charges for fire protection afforded by private hydrants which are not metered shall be based on the respective sizes of the connections of such private fire hydrants, as following:

1	Size of Fire <u>Hydrant Connection</u>	Annual Charge (Apart From Metered Rates)
2	2 inch	\$ 85.53
3	3 inch	123.54
4	4 inch	199.57
5	6 inch	361.13
6	8 inch	522.69
7	10 inch	7 <b>98.</b> 28
8	12 inch	1,140.40

(B) Public fire protection. All standard fire hydrants shall be billed at the rate of \$57.00 per year, and the city will pay the sum of \$4.75 per month for each fire hydrant maintained by the city, the sum to be deposited in the same fund as the fund in which all other revenues of the municipal water works and sewer system are deposited.

(Ord. 35-93, passed 12-21-93; Am. Ord. 10-95, passed 5-16-95)

#### § 53.37 BILLING.

(A) Bills for water and sewer services shall be billed, collected, and enforced together, so that when any bill has remained unpaid and becomes delinquent, the water service to the delinquent premises can be disconnected and will not be reinstated until the entire bill for both water and sewer service is paid in full.

01/23/2005 23:05

• :			FOR
			Community, Town or City
			P.S.C. KY. NO.
			SHEET NO.
E	Ma Water Environment Name of Utility)	ut Authority	CANCELLING P.S.C. KY. NO.
Ĭ	rame or purity)		SHEET NO
		RATES AND C	<b>TARGES</b>
N¢u⊃ <b>Wholes</b>	rates effectively	re immediately per Christian County Wat	er LH 12/29103 " er District
		Rate per 100 cubic feet	Equivalent Rate per 1,000 Gallons
First	3,000 cubic feet	2.30	3.08
Nest Nest	3,000 bubin foot	2.02	2.70
Nest	3,000 cubic feet	1.46	1.95
All Over	9,000 qubic foot	1.19	1.59

Poist-it Fax Note 7671	Date 1/24105   pages /
Anna	From Layon Dawns
Black + Veatch	co. Hw69
	Phone # 837-4049
Fax 9 9 13-458-3817	Fax •

BY AUTHORSTY OF ORDER OF THE PUBLIC SERVICE COMMISSION IN CARE NO. DATED December 17, 2003

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	3700 - 6000		430	4,528	
	6100 - 23,600		210	10,033	
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DISTRICT-HOPKINSVILLE
  RATE
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   56 2" - 6 DIALS
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Page 4

56 - TOTAL 66 3" - 6 DIALS	UT43  100  200  300  400  500  600  700 - 1200  1300 - 2000  2100 - 3000  3100 - 3600  3700 - 6000  6100 - 23,600  OVER 23,700	5R- Rate Study 1,860 3,460 5,920 12,640 13,170 20,880 132,300 221,720 362,600 215,860 688,520 7,200,190 24,534,730 33,413,850	2-8-05.tx 165 23 22 36 29 38 155 138 144 66 144 550 413 1,923	11 150 269 351 454 549 854 1,607 2,518 3,271 4,781 13,091 59,406
66 - TOTAL 76 4" - 6 DIALS	100 200 300 400 500 600 700 - 1200 1300 - 2000 2100 - 3000 3100 - 3600 3700 - 6000 6100 - 23,600 OVER 23,700	20 170 750 780 420 1,070 15,560 2,980 5,400 6,960 30,630 850,080 5,509,760 6,424,580	6 1 3 2 1 2 17 2 2 2 6 57 97 198	3 170 250 390 420 535 915 1,490 2,700 3,480 5,105 14,914 56,802
, o a o dimin	400 500 700 - 1200 3700 - 6000	3,210 860 720 42,740 Page 5	9 2 1 9	357 430 720 4,749

76 - TOTAL 86 6" - 6 DIALS	UT439 6100 - 23,600 OVER 23,700	5R- Rate Study 468,040 9,924,730 10,440,300 ✓	2-8-05.tx 32 127 180	xt 14,626 78,147	
86 - TOTAL 87 6" - 7 DIALS	100 6100 - 23,600 OVER 23,700	7,900 16,151,960 16,159,860	11 1 48 60 ✓	7,900 336,499	
87 - TOTAL	OVER 23,700	1,096,390 1,096,390 ✓	12 12 ✓	91,366	
98 SEWER-NO WT CONS 98 - TOTAL	IN HISTORY 200 400 3100 - 3600 6100 - 23,600 OVER 23,700	190 320 3,270 47,010 279,640 330,430	1 1 1 3 5	190 320 3,270 15,670 55,928	?
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99 - TOTAL HOPKINSVILLE DISTRICT-PEMBROKE	3700 - 6000 6100 - 23,600 OVER 23,700	330 430 -	2 11 76 577 162,850	3,870 13,416 242,308
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01 PEMBROKE - CUFT	CHART		,,	
01 - TOTAL 07 PEMBROKE-GALLON	100 200 300 400 - 2000 2100 - 4000 4100 - 7000 7100 - 10,000 OVER 10,000	5,770 21,130 34,380 793,110 97,780 58,080 9,620 503,840 1,523,710	167 140 133 1,157 35 11 1 24 1,668	35 151 258 685 2,794 5,280 9,620 20,993
	100	9,070	218	42
07 - TOTAL	200 300 400 - 2000 2100 - 4000 4100 - 7000 7100 - 10,000 OVER 10,000	28,250 47,890 672,170 72,740 77,920 118,660 231,640	174 189 1,023 25 13 15	162 253 657 2,910 5,994 7,911 14,478
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	3000 3100 <b>-</b> 6000	1,320 27,890 Page 7	2 5	660 5 <b>,</b> 578

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	6100 - 9000	212,410	29 7,324
	OVER 9000	55,571,460	106 524,259
WHOLESALE ACCOUNTS		55,813,080 ✓	142
REPORT TOTAL		252,788,170	173,361

# White, Anna M.

From:

Carol Cohoon [ccohoon@mail.cornerstonemail.com]

Sent:

Wednesday, February 09, 2005 8:49 AM

To:

White, Anna M.

Cc:

ejoiner@hwea-ky.com

Subject:

Rate Study - Ver.3

Attachments: UT435R- Rate Study 2-8-05.txt

Anna,

I have made the change to multiply consumption by 10 and apply to blocks.

Please review this revised report and let me know if there are any changes to be made.

Hopefully third time is "charm".

Thanks,

Carol Cohoon